

FLINN SCIENTIFIC, INC.

Material Safety Data Sheet (MSDS)

MSDS #: 288.00

Revision Date: September 30, 2011

SECTION 1 — CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Copper(I) Chloride

Flinn Scientific, Inc. P.O. Box 219 Batavia, IL 60510 (800) 452-1261

CHEMTREC Emergency Phone Number: (800) 424-9300

SECTION 2 — COMPOSITION, INFORMATION ON INGREDIENTS

Copper(I) chloride

Synonym: cuprous chloride

CAS#: 7758-89-6

SECTION 3 — HAZARDS IDENTIFICATION

White crystals that are stable to air and light when dry, but turn green in the presence of air and brown in the presence of light. Odorless.

Highly toxic by ingestion and inhalation. Body tissue irritant. Avoid ingestion, inhalation, and skin absorption.

FLINN AT-A-GLANCE

Health-3

Flammability-0

Reactivity-0

Exposure-1

Storage-1

0 is low hazard, 3 is high hazard

SECTION 4 — FIRST AID MEASURES

Call a physician and seek medical attention for further treatment, observation, and support after first aid.

Inhalation: Remove to fresh air at once. If breathing has stopped, give artificial respiration immediately.

Eye or External: Immediately flush with fresh water for at least 15 minutes.

Internal: Rinse mouth. Give large quantities of water for dilution. Call a physician or poison control at once.

SECTION 5 — FIRE FIGHTING MEASURES

Nonflammable, noncombustible solid.

When heated to decomposition, may emit chlorine and copper fume.

Fire Fighting Instructions: Use a triclass, dry chemical fire extinguisher. Firefighters should wear PPE and SCBA with full facepiece operated in positive pressure mode.

NFPA CODE

None

established

SECTION 6 — ACCIDENTAL RELEASE MEASURES

Restrict unprotected personnel from the area. Sweep up the spill, place in a sealed bag or container, and dispose. Ventilate area and wash spill site after material pickup is complete. See Sections 8 and 13 for further information.

SECTION 7 — HANDLING AND STORAGE

Flinn Suggested Chemical Storage Pattern: Inorganic #2. Store with acetates, halides, sulfates, sulfites, thiosulfates, and phosphates. Sensitive to light, air, and moisture: store in a cool, dry place protected from light. Store in a Flinn Chem-Saf bag. Use and dispense in a hood.

SECTION 8 — EXPOSURE CONTROLS, PERSONAL PROTECTION

Avoid contact with eyes, skin, and clothing. Wear chemical splash goggles, chemical-resistant gloves, and a chemical-resistant apron. Use ventilation to keep airborne concentrations below exposure limits. Always wear a NIOSH-approved respirator with proper cartridges or a positive pressure, air-supplied respirator when handling this material in emergency situations (spill or fire).

SECTION 9 — PHYSICAL AND CHEMICAL PROPERTIES

White crystals that are stable to air and light when dry, but turn green in the presence of air and brown in the presence of light. Odorless.
Solubility: Slightly soluble in water; soluble in acids.
Formula: CuCl
Formula weight: 98.99

Melting point: 430 °C
pH: 3-4
Specific gravity: 4.14

SECTION 10 — STABILITY AND REACTIVITY

Avoid oxidizing agents, alkali metals, and exposure to light, air, and moisture.
Shelf life: Good, but changes on exposure to air and light.

SECTION 11 — TOXICOLOGICAL INFORMATION

Acute effects: Toxic, irritant, and gastrointestinal disturbances.
Chronic effects: N.A.
Target organs: N.A.

ORL-RAT LD₅₀: 140 mg/kg
IHL-RAT LC₅₀: N.A.
SKN-RBT LD₅₀: N.A.

N.A. = Not available, not all health aspects of this substance have been fully investigated.

SECTION 12 — ECOLOGICAL INFORMATION

Data not yet available.

SECTION 13 — DISPOSAL CONSIDERATIONS

Please review all federal, state and local regulations that may apply, before proceeding.
Flinn Suggested Disposal Method #26a is one option.

SECTION 14 — TRANSPORT INFORMATION

Shipping name: Not regulated
Hazard class: N/A
UN number: N/A
N/A = Not applicable

SECTION 15 — REGULATORY INFORMATION

TSCA-listed, EINECS-listed (231-842-9).

SECTION 16 — OTHER INFORMATION

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**Consult your copy of the *Flinn Science Catalog/Reference Manual*
for additional information about laboratory chemicals.**